

## ABSTRACT OF THE INVENTION

A constant current output control method and device for a switching power supply circuit for constant current output control of an output current  $I_{2o}$  of a rectifying smoothing. An OFF adjustment time  $T3$  is:

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$$T3 = T2 \times (Np \div Ns \times I_{pref} \div 2 \div I_{2o\text{set}} - 1) - T1 \cdots (1)$$

in which,  $I_{2o\text{set}}$  represents a set output current of the rectifying smoothing circuit,  $Np$  represents a number of turns of a primary winding,  $Ns$  represents a number of turns of a secondary winding,  $T1$  being a fixed time representing an ON time,  $I_{pref}$  representing a reference peak current flowing in the primary winding, and  $T2$   
10 representing an output time during which output is generated from the rectifying smoothing circuit. Output current  $I_{2o}$  during an oscillation period  $T$  becomes set output current  $I_{2o\text{set}}$ , and constant current output control can be executed by repeating this method.